



## New LCD Laser Projectors Deliver Well-Balanced Color and Brightness with Seamless Integration into Corporate, Education, and Museum Environments

### PT-MZ680

The Series features PT-MZ880 (8,000 lm), PT-MZ780 (7,000 lm), and PT-MZ680 (6,000 lm) WUXGA models with a refined Multi-Laser Drive Engine for the optimal balance of high brightness, vivid colour, and low-maintenance operation. \*1 Measurement, measuring conditions, and method of notation are all compliant with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped.

#### Key Features

Laser LCD, 6 000 lumens, WUXGA

Compact and lightweight body, designed with ultra-low noise operation (26dB)

Wide Lens shift area and Ultra-Short Throw lens to expand installation capability

Edge Blending function to realize versatile space creation

Significant contribution to sustainability thanks to low Power consumption and Washable Eco Filter



## PT-MZ680

<https://ap.connect.panasonic.com/th/th/products/projectors/pt-mz680>

<b>Projector type</b>	LCD projector
<b>Display method</b>	Transparent LCD panel (x 3, R/G/B)
<b>Display Device -&gt; Panel size</b>	19.3 mm (0.76") diagonal (16:10 aspect ratio)
<b>Display Device -&gt; Drive method</b>	Active matrix method
<b>Display Device -&gt; Number of pixels</b>	2,304,000 (1920 x 1200) pixels x 3
<b>Light source</b>	Laser diodes
<b>Light output *1 *2</b>	6,000 lm
<b>Light output (ANSI) *3</b>	6,000 lm
<b>Time until light output declines to 50 %</b>	20,000 hours [NORMAL]
<b>-&gt; NORMAL *4</b>	
<b>Time until light output declines to 50 %</b>	24,000 hours [ECO]
<b>-&gt; ECO *4</b>	
<b>Time until light output declines to 50 %</b>	20,000 hours [QUIET]
<b>-&gt; QUIET *4</b>	
<b>Resolution</b>	WUXGA ( 1920 x 1200 ドット )
<b>Contrast Ratio (typ.) *2</b>	3,000,000:1 (Full On/Full Off)(When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1] or [2]. HDMI signal input)
<b>Screen size (diagonal)</b>	1.02-10.16 m (40-400 in), 1.52-10.16 m (60-400 in) with the ET-ELW22, 2.54-10.16 m (100-400 in) with the ET-ELU20, 16:10 aspect ratio
<b>Center-to-corner zone ratio *2</b>	85%
<b>Lens</b>	Powered zoom (throw ratio 1.61-2.76:1), powered focus F = 1.7-2.3, f = 26.8-45.5 mm (for supplied lens; optional lenses also available)
<b>Lens shift -&gt; Vertical(from center of screen)</b>	±67 % (powered) (for supplied lens; optional lenses also available*4)
<b>Lens shift -&gt; Horizontal(from center of screen)</b>	±35 % (powered) (for supplied lens; optional lenses also available*4)
<b>Keystone correction range</b>	Vertical: ±25 °, Horizontal: ±30 ° (for supplied lens; optional lenses also available*4)
<b>Installation</b>	Ceiling/floor, front/rear, free 360-degree installation
<b>Terminals -&gt; HDMI™ IN</b>	HDMI™ x 3 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input*5), CEC supported
<b>Terminals -&gt; COMPUTER IN ( D-SUB 15pin )</b>	D-sub HD 15-pin (female) x 1 (RGB/Y/P <sub>B</sub> /R/YC <sub>B</sub> /C <sub>R</sub> )
<b>Terminals -&gt; COMPUTER OUT ( D-SUB 15pin )</b>	D-sub HD 15-pin (female) x 1 (RGB/Y/P <sub>B</sub> /R/YC <sub>B</sub> /C <sub>R</sub> )
<b>Terminals -&gt; AUDIO IN(M3 Stereo Mini Jack)</b>	M3 stereo mini-jack x 1
<b>Terminals -&gt; AUDIO OUT(M3 Stereo Mini Jack)</b>	M3 stereo mini-jack x 1
<b>Terminals -&gt; MULTI PROJECTOR SYNC IN</b>	D-sub 9-pin (female) x 1 for external control/link control (RS-232C compliant)
<b>Terminals -&gt; MULTI PROJECTOR SYNC OUT</b>	D-sub 9-pin (male) x 1 for link control
<b>Terminals -&gt; SERIAL IN</b>	D-sub 9-pin (female) x 1 for external control/link control (RS-232C compliant)
<b>Terminals -&gt; SERIAL/MULTI-PROJECTOR SYNC IN</b>	D-sub 9-pin (female) x 1 for external control/link control (RS-232C compliant)
<b>Terminals -&gt; SERIAL/MULTI-PROJECTOR SYNC OUT</b>	D-sub 9-pin (female) x 1 for external control/link control (RS-232C compliant)
<b>Terminals -&gt; REMOTE 1 IN</b>	M3 stereo mini-jack x 1 for wired remote control
<b>Terminals -&gt; REMOTE 2 IN</b>	D-sub 9-pin (female) x 1 for external control (parallel)
<b>Terminals -&gt; DIGITAL LINK IN / LAN</b>	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBaseT™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p*5 *6 signal input)
<b>Terminals -&gt; LAN</b>	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink™ [Class 2], Art-Net)
<b>Terminals -&gt; DC OUT</b>	USB Connector (Type A) x 1 (Output 5 V/2 A)
<b>Power supply</b>	AC 100-240 V, 50/60 Hz
<b>Maximum power consumption *10</b>	360 W (4.2-2.0 A) (395VA)(Power consumption is 345 W at 200-240 V)
<b>On-mode power consumption(Operating mode) -&gt; Normal *10</b>	[NORMAL] 330 W (100-120 V), 315 W (200-240 V)
<b>On-mode power consumption(Operating mode) -&gt; Eco *10</b>	[ECO] 240 W (100-120 V), 230 W (200-240 V)
<b>On-mode power consumption(Operating mode) -&gt; Quiet *10</b>	[QUIET] 238 W (100-120 V), 228 W (200-240 V)
<b>Cabinet materials</b>	Molded plastic
<b>Filter *11</b>	Included
<b>Estimated filter maintenance cycle</b>	Approx. 20,000 hours

<b>Operation noise -&gt; Normal</b> <sup>*2</sup>	32 dB [NORMAL]
<b>Operation noise -&gt; Eco</b> <sup>*2</sup>	32 dB [ECO]
<b>Operation noise -&gt; Quiet</b> <sup>*2</sup>	26 dB [QUIET]
<b>Dimensions (W x H x D)</b>	561 x 224*8 x 439 mm (22 3/32" x 8 13/16"*8 x 17 9/32") (with supplied lens)
<b>Dimensions -&gt; Width (including protruding parts)</b>	561 mm (22 3/32")
<b>Dimensions -&gt; Height (including protruding parts)</b>	224 mm (8 13/16")
<b>Dimensions -&gt; Depth (including lens)</b>	439 mm (17 9/32")
<b>Weight</b> <sup>*12</sup>	Approx. 17.6 kg (38.8 lbs) (with supplied lens)
<b>Operating environment -&gt; Operating temperature</b> <sup>*13</sup>	0-45 °C (32-113 °F)
<b>Operating Environment -&gt; Operating humidity (No condensation)</b>	20-80 % (no condensation)
<b>Applicable software</b>	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Smart Projector Control for iOS/Android™, Geometry Manager Pro
<b>Footnote Description</b>	<ol style="list-style-type: none"> <li>1. When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL].</li> <li>2. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped.</li> <li>3. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped.</li> <li>4. Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [2]). Estimated time until light output declines to 50 % varies depending on environment.</li> <li>5. Lens-shift range and keystone correction range may vary depending on lens.</li> <li>6. 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection.</li> <li>7. YPBPR 4:2:0 format only for 4K/60p signals input via DIGITAL LINK.</li> <li>8. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft).</li> <li>9. With legs at shortest position.</li> <li>10. Average value. May differ depending on the actual unit.</li> <li>11. Note that the projector cannot be used at altitudes 2,700 m (8,858 ft) or higher above sea level. In the following operating environments, light output may be reduced to protect the projector: when the projector is used at altitudes below 700 m (2,297 ft) and ambient temperature is 36 °C (97 °F) or higher; when the projector is used at altitudes between 700 m (2,297 ft) and 1,400 m (4,593 ft) exclusive and ambient temperature is 34 °C (93 °F) or higher; when the projector is used at altitudes between 1,400 m (4,593 ft) and 2,100 m (6,890 ft) exclusive and ambient temperature is 32 °C (90 °F) or higher; and when the projector is used at altitudes between 2,100 m (6,890 ft) and 2,700 m (8,858 ft) exclusive and ambient temperature is 30 °C (86 °F) or higher.</li> <li>12. Some functions available in Geo Pro software are not supported by the PT-MZ880 Series.</li> </ol>